



Sunday, 2 August 2015

3:30–5:00 pmRegistration
Location: Colorado Ballroom Foyer
5:30–7:00 pmWelcome Reception
Location: Mountain View Room

Monday, 3 August 2015

Session 1: Rock Physics and Velocity Models

Session Chairs: Carmen Dumitrescu & Mark Kittridge
Location: Colorado Ballroom 1–2

8:30–8:35 am.....Opening
8:35–9:05 am.....**KEYNOTE: Towards a Unified Rock Physics Model** Arthur Cheng, National University of Singapore
9:05–9:35 am.....**RESQML V2: Transferring Knowledge Between Interpretation to Simulation Applications** Matthias Imhof, ExxonMobil Upstream Research Company
9:35–10:05 am.....**Reducing Exploration Risk by Bayesian Classification of Seismic** Klaas Koster, Murphy
10:05–10:25 am.....Coffee Break
10:25–10:55 am**Rock Physics Guided Velocity Modeling for Depth Imaging and Pore Pressure** Nader C. Dutta, Schlumberger
10:55–11:25 am.....**Geophysical Basin Modeling: Effective Stress, Temperature and Pore Pressure Uncertainties** Giuseppe De Prisco, Statoil
11:25 am–12:00 pm...Discussion
12:00 pm–1:30 pm ...Lunch Break
Location: Colorado Ballroom 3

Session 2: Rock Physics and Statistics

Session Chairs: Tapan Mukerji & Matthias Imhof
Location: Colorado Ballroom 1–2

1:30–1:35 pmOpening
1:35–2:05 pm**The Future Impact Digital Rock Physics** Amos Nur, Stanford University

2:05–2:35 pm**Applying a 'Physics of Rocks' Workflow to Carbonate Reservoir Rocks: Recent Application and New Insights** Mark Kittridge, Hess Corp.
2:35–3:05 pmDiscussion
3:05–3:25 pmCoffee Break
3:25–3:55 pm**Application of Statistical Rock-Physics to Quantitative Interpretation in Thin Reservoir** Chen Qiyang, Northwest Branch, Research Institute of Petroleum Exploration and Development, PetroChina
3:55–4:25 pm**Reservoir Properties Extrapolation Using Probability Trends as a Real Control of Ajot Field, Offshore, Niger Delta** Olugbenga Ajai Ehinola, U of Ibadan
4:25–5:00 pmDiscussion
6:30–9:00 pmGroup Dinner
Location: Mountain View Room

Tuesday, 4 August 2015

Session 3: Quantitative Interpretation for Reservoir Properties Prediction

Session Chairs: Giuseppe De Prisco & Konstantin Osypov
Location: Colorado Ballroom 1–2

8:30–8:35Opening
8:35–9:05 am.....**KEYNOTE: Geologic Scenario Uncertainty in Seismic Reservoir Characterization** Tapan Mukerji, Stanford University
9:05–9:35 am.....**Gather Conditioning, Processing Impact on AVO and Rock Property Prediction** Roger A. Young, CTO
9:35–10:05 am.....**Lithologic Constrained Reservoir Parameter Inversion** Gui Jinyong, Northwest Branch, Research Institute of Petroleum Exploration and Development, PetroChina
10:05–10:25 am.....Coffee Break
10:25–10:55 am**Reliability Issues in Fracture Determination Using Azimuthal Residual Moveouts and AVAZ** Anat Canning, Paradigm
10:55 am–11:25 am ...**Creating an Elastic Earth Model from Depositional Forward Modeling Using Rock Physics Transforms** Boris Gurevich, Curtin University and CSIRO
11:25am–12:00 pm...Discussion
12:00 pm–1:30 pm ...Lunch Break
Location: Colorado Ballroom 3

Session 4: Rock Physics Analysis and Seismic Geomorphology

Session Chairs: Bob Benson & Gaynor Paton
Location: Colorado Ballroom 1–2

1:30–1:35.....Opening
1:35–2:05 pm**Mult-attribute Rotation Scheme: A Tool for Reservoir Properties Prediction from Seismic Inversion Attributes** Pedro Alvarez, Rock Solid Images
2:05–2:35 pm**Understanding Deepwater Transport Systems Through Processing and Interpreting Seismic Data In Color** Andreas Laake, Schlumberger
2:35–3:05 pmDiscussion
3:05–3:25 pmCoffee Break
3:25–3:55 pm**Integrated QI and Seismic Geomorphology Workflow** Gaynor Paton, ffa
3:55–4:25 pm**Application of Matching Pursuit in the Prediction of Carbonate Fracture-cavity Reservoir** Zhengqing Wang, Hongbin Wang, and Huquan Zhan, Northwest Branch, Research Institute of Petroleum Exploration and Development, PetroChina
4:25–5:00 pmDiscussion

Wednesday, 5 August 2015

Session 5: Seismic and Non-seismic Methods for Reservoir Characterization

Session Chairs: Craig Beasley & Pedro Alvarez
Location: Colorado Ballroom 1–2

8:30–8:35.....Opening
8:35–9:05.....**KEYNOTE: Characterizing Onshore Reservoirs with Direct-P and Direct-S Wavefields Produced by P-wave Sources** Bob Hardage, University of Texas-Austin
9:05–9:55 am.....**Induced Polarization Effect in Unconventional Reservoir Rocks** Masashi Endo, TechnoImaging
9:55–10:05 am.....Discussion
10:05–10:25 am.....Coffee Break
10:25–10:55 am.....**Combining High- and Low- Resolution Resistivity Data using an EM Inversion Approach** Jennifer M. Livermore, NEOS Geosolutions
10:55–11:25 am.....**Evaluating Stress-Dependent Elastic Properties: Evidence from (Siliciclastic) Core** Mark G. Kittridge, Hess Corp.
11:25 am–12:00 pm...Discussion
12:00 pm–1:30 pm ...Lunch Break
Location: Colorado Ballroom 3

Session Chairs: Andreas Laake & Nader Dutta
Location: Colorado Ballroom 1-2

1:30–1:35 pm	.....	Opening
1:35–2:15 pm	.....	Integrated Static and Dynamic Modeling, Combining Time-lapse Seismic Inversion, Statistical Rock Physics, and History Matching <i>Dario Grana, University of Wyoming</i>
2:15–2:45 pm	.....	Hydraulic Stimulation Modeling in the Eagle Ford and Implications of Natural Fracture Density <i>Donald Lee, Schlumberger</i>
2:45–3:15 pm	.....	Niobrara Horizontal Well Planning Using 3D Seismic Data and Petrophysics: Key Technologies for Accurate Lateral Placement, Completion Optimization and Maximizing Production <i>Jack M. Wiener, Halliburton</i>
3:15–3:30 pm	.....	Coffee Break
3:30–4:30 pm	.....	Discussion and Wrap-Up

Organizing and Technical Program Committee

Carmen Dumitrescu, (Chair) Terra-IQ, Ltd.

William Abriel, Chevron

Bill Barkhouse, SEG®

Craig Beasley, NEOS Geosolutions

Robert Benson, Colorado School of Mines

Huyen Bui, Shell

Rocco Detomo, Omoted Geophysical Consulting

Bob Hardage, Bureau of Economic Geology

Matthias Imhof, ExxonMobil

Gary Jones, IHS

Andreas Laake, Schlumberger

Jill Lewis, Troika International Ltd.

Konstantin Osypov, Chevron

Alana Schoepp, Shell

Michael Zhdanov, TechnoImaging

NOTES

SEG® EARTH MODEL FORUM PROGRAM

Rendering Rock Properties for Qualitative and Quantitative Interpretation

Vail Marriott Mountain Resort

Vail, Colorado

2–5 August 2015



Society of Exploration Geophysicists
The international society of applied geophysics